

Amendments to the Claims:

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 5 Claim 1 (currently amended): A method for program debugging, the method comprising:
- setting a plurality of breakpoints corresponding to a plurality of events in BIOS
 program code ~~an implementation under test~~, each event being a test
 executed to a peripheral device and taking a general processing path when
10 the peripheral device is working well or an error processing path when the
 peripheral device is in an error state;
 executing the BIOS program code ~~implementation under test~~ for outputting a
 diagnosis code of a breakpoint;
 resetting a parameter to simulate the peripheral device being in the error state
15 throughout execution of the event corresponding to the diagnosis code; and
 executing the event corresponding to the diagnosis code according to the reset
 parameter for making the event undergo the error processing path.
- Claim 2 (currently amended): The method of claim 1 further comprising:
- 20 after executing the event corresponding to the diagnosis code according to the
 reset parameter for making the event undergo the error processing path, for
 making the BIOS program code ~~implementation under test~~ make all events
 undergo the error processing path, repeating the steps of executing the BIOS
 program code ~~implementation under test~~ for outputting the diagnosis code of
25 the breakpoint, resetting the parameter of the event corresponding to the
 diagnosis code, and executing the event corresponding to the diagnosis code
 according to the reset parameter for making the event undergo the error
 processing path.
- 30 Claim 3 (original): The method of claim 1 wherein the breakpoints are set ahead of

program codes of the corresponding events.

Claim 4 (original): The method of claim 1 wherein the breakpoints are set after
program codes of the corresponding events.

5

Claim 5 (canceled)

Claim 6 (previously presented): The method of claim 1 wherein the error processing
path produces an audible tone.

10

Claim 7 (previously presented): The method of claim 1 wherein the error processing
path causes a system reset.

15

Claim 8 (previously presented): The method of claim 1 wherein the error processing
path causes a system execution interrupt.

Claims 9-16 (cancelled)

20

Claim 17 (currently amended): The method of claim 1 further comprising:
executing the BIOS program code ~~implementation under test~~ until the diagnosis
code of the breakpoint matches a predetermined diagnosis code before
resetting the parameter of the event corresponding to the diagnosis code,
and executing the event corresponding to the diagnosis code according to
the reset parameter for making the event undergo the error processing path.

25

Claim 18 (currently amended): A method for program debugging, the method
comprising:
setting a plurality of breakpoints corresponding to a plurality of events in a driver
program code ~~an implementation under test~~, each event being a test
executed to a peripheral device and taking a general processing path when

30

- the peripheral device is working well or an error processing path when the peripheral device is in an error state;
setting a parameter to simulate that the peripheral device is working well throughout execution of the driver program code ~~implementation under test~~;
5 executing the driver program code ~~implementation under test~~ according to the parameter for outputting a diagnosis code corresponding to each breakpoint; for each breakpoint, determining whether the diagnosis code matches a user defined diagnosis code; and
resetting the parameter to simulate that the peripheral device is in the error state
10 and executing the event corresponding to the diagnosis code according to the reset parameter for making the event undergo the error processing path when it is determined that the diagnosis code matches the user defined diagnosis code.
- 15 Claim 19 (currently amended): The method of claim 18 further comprising continuing execution of the driver program code ~~implementation under test~~ to a next breakpoint without resetting the parameter when it is determined that the diagnosis code does not match the user defined diagnosis code.
- 20 Claim 20 (previously presented): A method for program debugging, the method comprising:
setting one or more breakpoints corresponding to one or more events of a plurality of events in an implementation under test, each one or more event being a test executed to a peripheral device and taking a general processing
25 path when the peripheral device is working well or an error processing path when the peripheral device is in an error state;
executing the general processing path of the one or more event by resetting a first parameter, and outputting a first diagnosis code of the one or more breakpoints;
30 executing the error processing path of the one or more event by resetting a

second parameter, and outputting a second diagnosis code of the one or more breakpoints; and
debugging the program according to the first and second diagnostic codes.

- 5 Claim 21 (previously presented): The method of claim 20 further comprising executing both the general processing path and the error processing path of all events of the plurality of events.